

## ABSTRACT

In a method and a device for testing a plurality of measured devices in parallel by using a single signal generator and a single bit error measuring  
5 device, a serial signal for testing purposes is converted and demultiplexed into parallel signals corresponding to channels respectively assigned to a plurality of measured devices and a redundant channel, a signal passing through the redundant channel is converted into a channel determination signal for specifying an alignment of the measured devices, output signals of the  
10 measured devices and the channel determination signal are multiplexed corresponding to a demultiplexing mode used for demultiplexing the serial signal, and bit errors are measured in the multiplexed signals and measured devices at which the bit errors are generated are detected in consideration of the channel determination signal.